

### Abstract

A device to convert energy having exterior and interior rotors where the number of legs ( $\Lambda$ ) of an interior rotor divided by the number of chambers ( $\chi$ ) defined by the fins of the outer rotor is equal to the effective radius of the inner reference circle  $r_i$  divided by the effective radius of the outer reference circle  $r_o$  (i.e.  $\Lambda / \chi = r_i / r_o$ ). Where the surface of the fins of the outer rotor and the toe and heel portion of the interior rotor allow for a sealed chamber for a finite amount of rotation of the inner and outer rotors.

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